

## 2024 Current Fiscal Year Report: Department of the Air Force Scientific Advisory Board

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### 1. Department or Agency

Department of Defense

### 2. Fiscal Year

2024

### 3. Committee or Subcommittee

Department of the Air Force Scientific  
Advisory Board

### 3b. GSA

### Committee No.

439

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

05/20/2022 05/20/2024

### 6. Expected Renewal Date

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

Not Applicable

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority

Agency Authority

### 12. Specific Establishment Authority

Agency

### 13. Effective Date

02/19/1946

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee

Scientific Technical Program  
Advisory Board

### 16a. Total Number of Reports

No Reports for  
this Fiscal Year

### 17a. Open

0

### 17b. Closed

0

### 17c. Partially Closed

0

### Other Activities

0

### 17d. Total

0

### Meetings and Dates

No Meetings

Current Next  
FY FY

<b>18a(1). Personnel Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$0.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$0.00	\$0.00
<b>18d. Total</b>	\$0.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

**20a. How does the Committee accomplish its purpose?**

The Scientific Advisory Board (SAB) fulfills several critical functions for the Air Force: 1) provides independent technical advice to Department of the Air Force (DAF) leadership, 2) studies topics deemed critical by the Secretary of the Air Force, 3) recommends applications of technology to improve DAF capabilities, 4) provides an independent review of the quality and relevance of DAF Science and Technology programs. These are accomplished through study panels, advisory groups, and review panels.

**20b. How does the Committee balance its membership?**

To account for the wide variety of Science and

Technology focus areas that aid the Air Force in the pursuit of technological superiority, the technical expertise of the membership is tracked using 26 distinct technical categories. A strong effort is made to balance board membership in terms of technical expertise, sector (academia, industry, and major scientific institutions), previous government experience, and diversity.

**20c. How frequent and relevant are the Committee Meetings?**

Typically, the entire board meets three times annually to deliberate and vote on the findings and recommendations from both studies and S&T reviews. Full board meetings occur in the Winter, Spring, and Summer timeframes. Fall gatherings are typically administrative in nature. Major studies generally require several information gathering/fact-finding meetings and also hold administrative meetings for briefing preparation and report writing. Science and Technology reviews generally require fact-finding meetings with AFRL technology directorates and may be preceded by visits to geographically separate units.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The Secretary of Defense has determined that no other DoD advisory committee can provide the independent advice provided by the committee to the Secretary of the Air Force on scientific and technical issues facing the Department of the Air Force.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

Meetings are not closed to the public unless the Department of Defense determines that items on

the planned agenda meet the closed meeting provisions of 5 U.S.C. § 552b(c-1). Pursuant to DoD policy closed meetings can only be authorized by the DoD Sponsor, who is the Secretary of the Air Force or designee, and only after consultation with the appropriate General Counsel.

## 21. Remarks

The SAB provides independent advice on matters of science and technology relating to the Air Force mission, reporting directly to the Secretary of the Air Force and Chief of Staff of the Air Force. Since 1944, luminaries such as Dr. Theodore von Kármán, General James Harold "Jimmy" Doolittle, Dr. Ivan Gettling, Dr. Edward Teller, and Dr. Charles Stark Draper, and more recently Dr. Robert Lucky and Dr. Natalie Crawford, have provided visionary and forward-looking advice on technologies such as: supersonic aircraft, weather forecasting, satellite communications, medical research, crewless airplanes, and defenses against aircraft and missiles. Today, the SAB continues to emphasize future technologies through its in-depth reviews of the Air Force Research Laboratory's science and technology developments, and its studies of topics tasked by the Secretary and Chief of Staff. Recent SAB studies have informed Air Force leadership and influenced science and technology pursued and adopted by the Air Force. The SAB continues to look into the future, helping enable continued affordable technological pre-eminence of the U.S. Air Force and the Nation.

## Designated Federal Officer

Blythe A Andrews DFO

Committee Members	Start	End	Occupation	Member Designation
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Alving, Amy	04/05/2022	04/04/2024	Retired	Special Government Employee (SGE) Member
Antkowiak, Patrick	04/07/2022	04/06/2026	Industry	Special Government Employee (SGE) Member
Bontz, Robert	04/05/2022	04/04/2024	Industry	Special Government Employee (SGE) Member
Brothers, Reginald	04/04/2022	04/03/2025	Industry	Special Government Employee (SGE) Member
Chilton, Catherine	04/05/2022	04/04/2026	Retired	Special Government Employee (SGE) Member
Chow, James	01/05/2023	01/04/2027	FFRDC	Special Government Employee (SGE) Member
Crawford, Natalie	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Evans, Pamela	04/04/2022	04/03/2025	FFRDC	Special Government Employee (SGE) Member
Hersey, Ryan	04/04/2022	04/03/2025	UARC	Special Government Employee (SGE) Member
Kempel, Leo	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Masiello, Thomas	04/05/2022	04/04/2026	Industry	Special Government Employee (SGE) Member

Pratt, Katherine	04/04/2022	04/03/2026	Industry	Special Government Employee (SGE) Member
Reed, Helen	04/22/2022	04/21/2026	Academia	Special Government Employee (SGE) Member
Saeger, Kevin	04/04/2022	04/03/2024	National Lab	Special Government Employee (SGE) Member
Sandell, Nils	03/11/2022	03/10/2024	Retired	Special Government Employee (SGE) Member
Sutharalingam, Vyshnavi	03/24/2022	03/23/2024	FFRDC	Special Government Employee (SGE) Member
Urrutia-Varhall, Linda	04/04/2022	04/03/2025	Retired	Special Government Employee (SGE) Member
Wegner, Peter	04/04/2022	04/03/2025	Industry	Special Government Employee (SGE) Member
Whelan, David	01/12/2023	01/11/2027	Academia	Special Government Employee (SGE) Member
Benson-Tolle, Tia [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Berman, Harry [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Retired	Special Government Employee (SGE) Member
Bowersox, Rodney [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member

Gustafson, Mark [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Hill, Kristi Ann Morgansen [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Kuller, William [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Retired	Special Government Employee (SGE) Member
Massey, Kevin [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Mendez, Enrique [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/10/2023	01/09/2027	Retired	Special Government Employee (SGE) Member
Schrock, Eric [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Thole, Karen [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Willcox, Karen [Department of the Air Force Scientific Advisory Board Aeronautical Capabilities and Operations Subcommittee]	01/05/2023	01/04/2027	Academia	Special Government Employee (SGE) Member
Beermann-Curtin, Sharon [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Coombs, David [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member

Dougherty, Llewellyn [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/05/2023	01/04/2027	Industry	Special Government Employee (SGE) Member
Fratamico, John [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Green, Jonathan [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Kent, Brian [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Matarazzo, Celeste [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/05/2023	01/04/2027	FFRDC	Special Government Employee (SGE) Member
Narula-Tam, Aradhana [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Plummer, Anthony [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	UARC	Special Government Employee (SGE) Member
Santos, Eugene [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Simer, Gregory [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member



Simonson, Katherine [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Warner, Steve [Department of the Air Force Scientific Advisory Board Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Subcommittee]	01/06/2023	01/05/2027	Retired	Special Government Employee (SGE) Member
Davis, Charles [Department of the Air Force Scientific Advisory Board Commercial Technology Trends and Opportunities Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Douglass, Robert [Department of the Air Force Scientific Advisory Board Commercial Technology Trends and Opportunities Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Rhemann, Maureen [Department of the Air Force Scientific Advisory Board Commercial Technology Trends and Opportunities Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Specht, Lindley [Department of the Air Force Scientific Advisory Board Commercial Technology Trends and Opportunities Subcommittee]	01/04/2023	01/03/2027	Retired	Special Government Employee (SGE) Member
Appleby, Brent [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Industry	Special Government Employee (SGE) Member
Cunningham, Robert [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Hancock, Peter [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Harrington, Karen [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/05/2023	01/04/2027	Industry	Special Government Employee (SGE) Member

Henderson, Rashaunda [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Herr, Amy [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Murphey, Todd [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/05/2023	01/04/2027	Academia	Special Government Employee (SGE) Member
Regli, William [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/10/2023	01/09/2027	Academia	Special Government Employee (SGE) Member
Shannon, Gregory [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Sobel, Annette [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	Retired	Special Government Employee (SGE) Member
Song, Bo [Department of the Air Force Scientific Advisory Board Emerging Science Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Ackermann, Mark [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Bear, Michael [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/06/2023	01/05/2027	Industry	Special Government Employee (SGE) Member
Beers, Suzanne [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Duncan, Robert [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member

Fawcett, Philip [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Levin, Deborah [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	Academia	Special Government Employee (SGE) Member
Patterson, Patric [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	UARC	Special Government Employee (SGE) Member
Schmidt, Lara [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	FFRDC	Special Government Employee (SGE) Member
Stadter, Patrick [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/04/2023	01/03/2027	UARC	Special Government Employee (SGE) Member
Yarbrough, Allyson [Department of the Air Force Scientific Advisory Board Space Capabilities and Operations Subcommittee]	01/05/2023	01/04/2027	FFRDC	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 68**

### **Narrative Description**

The Department of the Air Force Scientific Advisory Board (SAB) studies are undertaken on topics approved by the Secretary of the Air Force. Thus, these are topics Department of the Air Force Senior Leadership sees as essential to carry out the DAF Mission in the years ahead. SAB recommendations cover both operational concepts and technologies to support the warfighter - both essential elements of the ongoing USAF/USSF transformation. The SAB supports the maintenance of superior science and technology in the Air Force Research Laboratory (AFRL) through quality reviews which assess the quality and relevance of the Air Force mission of research supported by AFRL.

**What are the most significant program outcomes associated with this committee?**

Checked if  
Applies

Improvements to health or safety	<input checked="" type="checkbox"/>
Trust in government	<input checked="" type="checkbox"/>
Major policy changes	<input checked="" type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input type="checkbox"/>

### Outcome Comments

NA

### What are the cost savings associated with this committee?

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

### Cost Savings Comments

The Department of the Air Force invests roughly \$4.6B per year on science and technology. The SAB advises DAF leadership on a wide range of technology related items, and while SAB activities have influence on the content of the S&T portfolio, in general the SAB does not directly address budgeting and investment issues.

### What is the approximate Number of recommendations produced by this committee for the life of the committee?

1,011

**Number of Recommendations Comments**

The SAB has been in existence for over 75 years. The number of recommendations (1011) shown above dates back to 2003.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

55%

**% of Recommendations Fully Implemented Comments**

Dating back to 2003, there is sufficient evidence through Department of the Air Force feedback and subsequent activity that 558/1011 SAB recommendations have been fully adopted. Brand new FY22 & FY23 recommendations are included in the bottom number (1011), however it has not been long enough to determine if the results are fully implemented.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

14%

**% of Recommendations Partially Implemented Comments**

Dating back to 2003, there is sufficient evidence through Department of the Air Force feedback and subsequent activity that 143/1011 SAB recommendations have been partially adopted.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

The Military Deputy, Office of the Assistant Secretary of the Air Force for Acquisition provides feedback at quarterly board meetings. Additionally, the Air Force Research Laboratory Commander provides feedback at outbriefs and other board venues. The Secretary of the Air Force (or an official designee) also provides feedback at scheduled outbriefings. Feedback, if unclassified, will be provided in the meeting minutes from the mentioned meetings.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

### Action Comments

When Air Force leadership adopts a SAB recommendation, this adoption may involve reorganized research priorities within the Air Force Research Laboratory (AFRL) or a reallocation of resources within AFRL or a MAJCOM/FLDCOM to either engage in a certain technology endeavor or divestiture.

### Is the Committee engaged in the review of applications for grants?

No

### Grant Review Comments

NA

### How is access provided to the information for the Committee's documentation?

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input checked="" type="checkbox"/>

### Access Comments

Unclassified reports are available via the Defense Technical Information Center (DTIC), via the public, <https://discover.dtic.mil/>, or the private side of DTIC.